Replacement milking parlour at Knolton Farm (P/2023/0877)

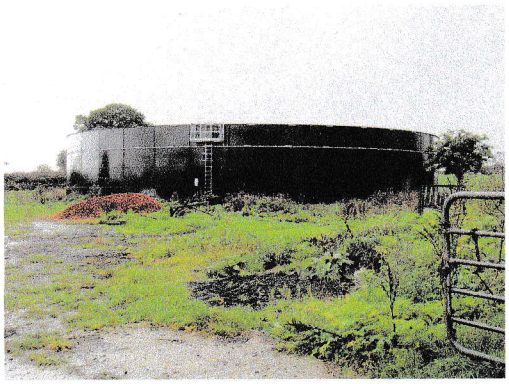
Condition 6 – Request for approval of underground pipework used for transferring slurry to existing slurry store

1. All slurry from the replacement milking parlour will be pumped into the existing farm slurry store as happens at present. There will be no increase in the amount of slurry produced and probably a reduction as milking will be quicker with the introduction of the new milking machinery and a potential reduction in the number of milking shifts from three to two each day.

2. Condition 6 of the planning permission for the replacement milking parlour requires approval to be sought for any underground pipework installed to transfer slurry to the slurry store.

3. Originally it was intended to install the pipework under the adjacent St Martins Road but the contractor's engineers have advised against this because of the differing ground levels and the impact on highway traffic (See email from Tom Booth to R Bennett appended).

4. Instead of excavating across the highway it is now proposed to connect the new parlour to the slurry store using the existing slurry pipe which is already ducted beneath the road and across the field leading to the store. This pipework is modern and does not leak and it has the capacity to serve the replacement parlour.



Slurry will be pumped into the existing slurry store. This store is modern and works well



Slurry will be pumped from the parlour to the existing slurry pipe using new 125mm toughened sealed plastic pipe

5. After each milking session the parlour will be washed down (with harvested rainwater) and slurry will be directed into a slurry sump

at the eastern end of the building. All slurry will be contained within the building.

6. Slurry from the sump will be pumped (using an automatic Storth Electric Pump) to the slurry store via the existing slurry pipe at the western end of the yard. This will require approximately 52m of new 125mm pipe to be laid to link the sump to the existing pipework. The pump will be controlled by a float to ensure that it resumes pumping before the sump is full and cannot overflow. Details of the pump are appended.
The new plastic pipe is designed to carry slurry. It is toughened plastic (crush and crack proof) with sections glued and sealed to prevent leaks.
It will be buried in a trench approximately 600mm deep and will be protected by ballast and a concrete capping. It will be connected to the pump and the existing slurry pipe using leak proof clamps.

7. There is no potential for slurry to leak from the building or from the pipework.

Proposed 37,000 litre storm (rain) water storage tank 

Existing pipework feeding the slurry store 

Proposed 125mm pipework 

Proposed Storth Automatic Electric Slurry Pump 

Existing Slurry Store 

NB. The proposed 125mm plastic pipe link from the parlour building to the slurry store (via the existing pipework) is the preferred and safest way of transferring slurry without risk of pollution. If this is not acceptable the slurry will be pumped to the slurry store above ground using suitable rubber / synthetic slurry hose. Hose is used for pumping slurry on most farms and it does not require local authority approval.

tomas booth <tomas_booth@hotmail.co.uk> 12/8/2024 14:07

New Milking Parlour - Connection to Slurry Store

To planning@robparrybennett.com

Dear Rob

I met the contractors who are going to build the replacement milking parlour last week and they are happy that it should be straightforward. The site conditions are good.

We discussed the arrangements for connecting to the slurry store and the engineer advised against digging another trench across the highway.

As you know the slurry store is located across the road , in the field opposite the parlour and because the field is higher than the farm yard the trench for the pipe will have to be dug deeper and deeper as it crosses the road and approaches the store. The deeper excavations will be more complex and they will require the road to be closed for a longer period.

Fortunately the existing slurry pipe which connects the current parlour to the slurry store is in good condition and the engineer assessed that it is perfectly adequate to serve the replacement parlour. It has its own protective tunnel (pipe) beneath the road, it is only about 50m away and is easy to reach.

The pipe from the new parlour to the existing pipe can be buried alongside the new building so the excavations will be modest. This area will be free from traffic so there will be no chance of the pipe being damaged. These pipes are armoured/ toughened plastic and do not corrode so they will not crack or leak which should reassure the Council and NRW. Nothing can get polluted.

If you need anything else please let me know.

Thanks

Tom



STORTH

EXPERTS IN SLURRY MANAGEMENT

PUMP IT

Storth have worked hard with the end user to develop a suitable range of Slurry Pumps which will aid Slurry Management on every farm allowing us to provide the right Pump solution every time.

High Performance **Slurry Pumps**

Specialist Manufacturers of Slurry Handling Equipment



STORTH
Stoneleigh Park, Station Road,
Holme, Nr Carnforth, Lancashire, LA6 1HR.

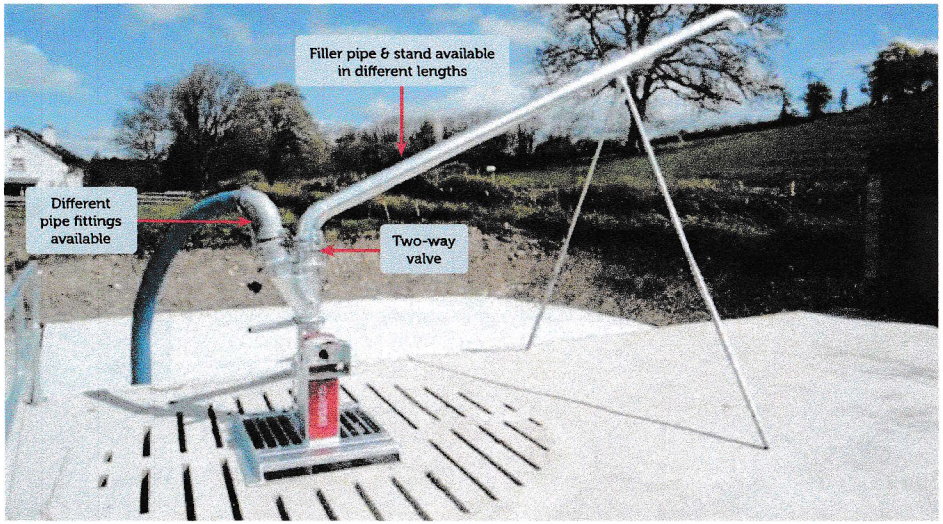
Tel: 0044 1524 781 900
Email: sales@storthmachinery.co.uk

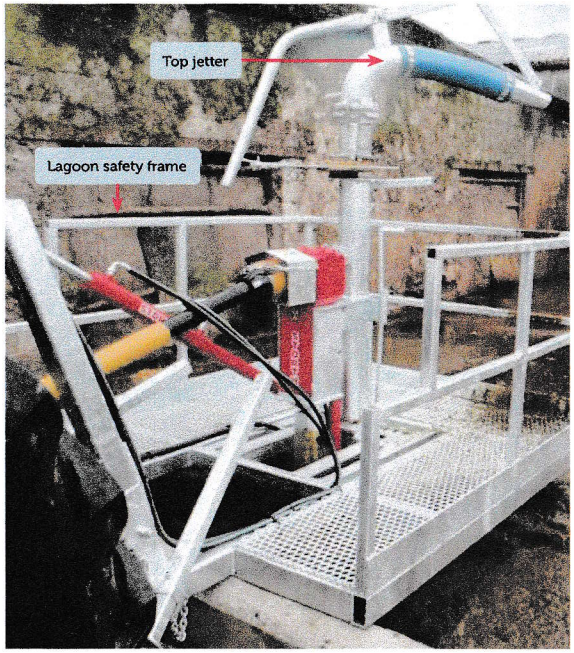
Manufactured in the UK

www.storthmachinery.co.uk

Pump Accessories

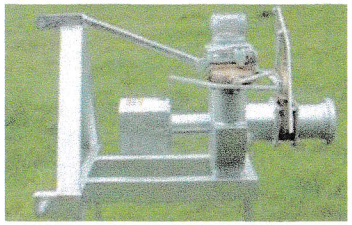
As all applications of slurry management are not all the same, Storth have developed a range of accessories to fit all our Slurry pumps.





Re-Circulation Pump

The 6" Re-Circulation pump is used to enable the mixing of above ground storage tanks without the need for a reception tank. The slurry enters the re-circulation pump from a head pressure of slurry entering the impeller housing with a 1,000rpm input. The machine will discharge at 3,000gpm.

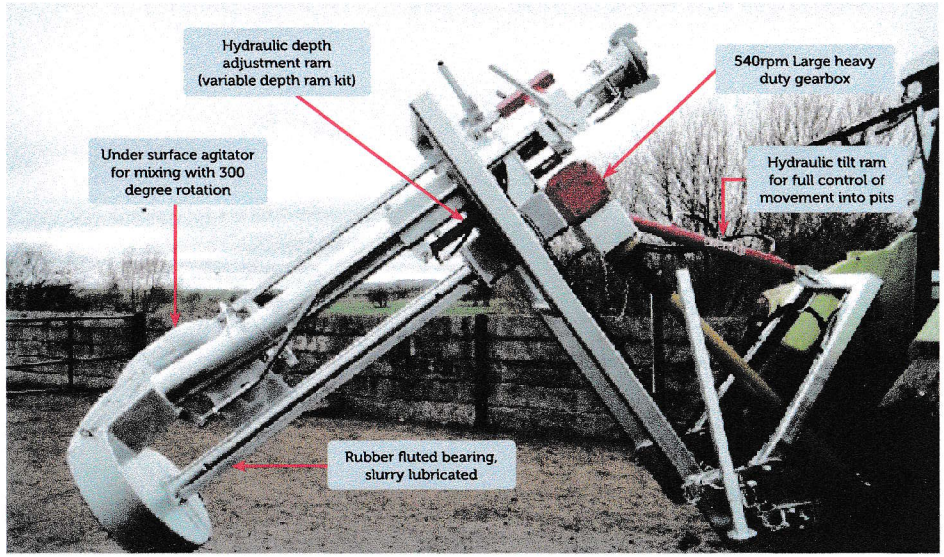


Technical Details

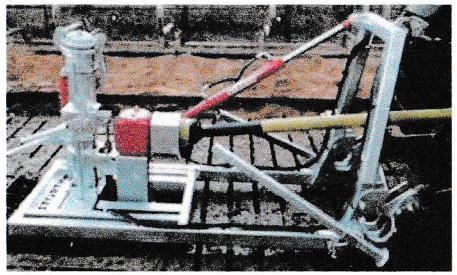
- Fully galvanised
- 3-point linkage frame

Superjet 3-Point Linkage 5" & 6"

The Superjet 3-Point Linkage is a high capacity pump with options of 5", 6" and 8" pipe work. Fitted with a high capacity drum, the Superjet 3-Point Pump enables high volumes of slurry to be moved long distances. The under surface agitator will give incredible agitation prior to pumping. When moving this pump from tank to tank the PTO can be left attached to the tractor and machine. This extra option is full hydraulic movement on all functions to allow full control from the tractor seat.







Technical Details

- Variable depth ram kit available to mix different tank depths
- 4 blade impeller
- 540rpm large heavy duty gearbox
- Full hydraulic on all functions available
- PTO included

Models Available

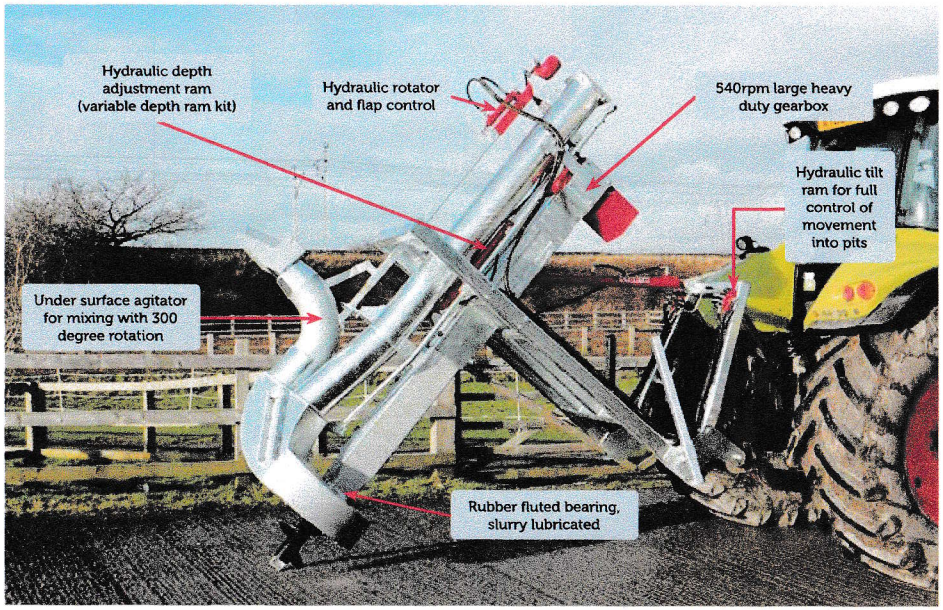
Lengths available from 6ft (1.8m) up to 12ft (3.6m). Lengths are measured in foot (300mm) increments.

Or models with variable depth Ram Kit

- 5-8ft (1.8-2.4m) length
- 8-10ft (2.4-3.0m) length
- 10-12ft (3.0-3.6m) length

Superjet 3-Point Linkage 8"

The Superjet 3-Point Linkage 8" Pump is the ultimate mixer pump with unrivalled performance and high quality construction which allows this machine to satisfy the larger farmer and contractor's slurry problems. All models are all fully hydraulic controlled from the tractor seat, hydraulic tilt ram, hydraulic depth adjustment, hydraulic motor for rotating the mixer nozzle and a hydraulic ram for moving the mixer nozzle flap up and down. All of these functions can be run from a minimum of two double acting services from the tractor.



5" (125mm)

- 80-100hp required
- 5" (125mm) discharge pipe
- 3000 gallons (13,638L) mixing capacity per minute

6"(150mm)

- 100-120hp required
- 6" (150mm) discharge pipe
- 4500 gallons (20,457L) mixing capacity per minute

8"(175mm)

- 160-180hp required
- 8" (175mm) discharge pipe
- 6500 gallons (29,549L) mixing capacity per minute

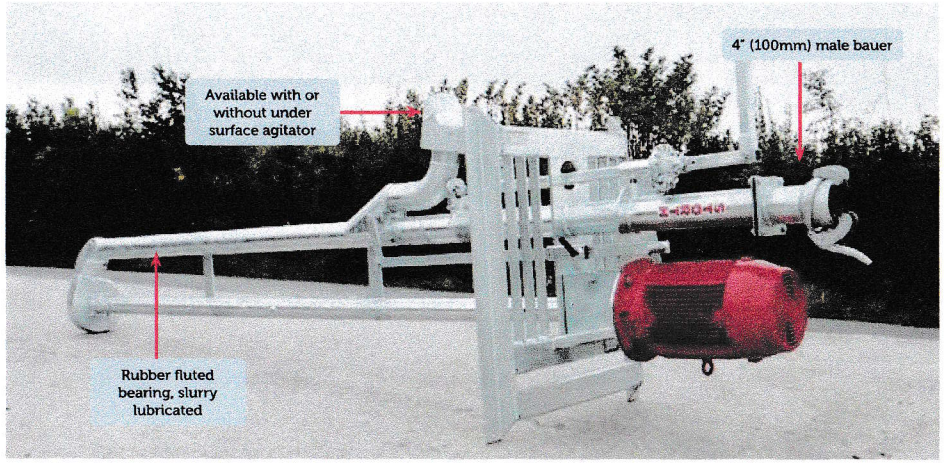






* Electric Pumps *

Storth have developed a range of electric driven pumps to enable the farmer to manage slurry automatically without the use of a tractor. Storth Electric Pumps all require 3 phase electric and are available in different motor sizes, dependent on the application. Our Electric Pumps can be set up on float switches to allow the pump to start and stop automatically when the slurry reaches a certain level.



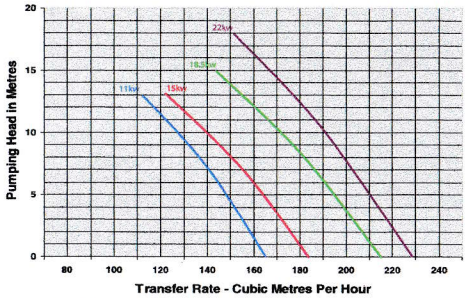


Technical Details

- 3 phase electric is required
- 4" & 5" (100mm & 125mm) discharge pipe
- Fully galvanised
- Available with or without the under surface agitator
- Supplied with Storth control panel

Models Available

- Lengths available from 6ft (1.8m) up to 16ft (5m).
- Different sizes of motor available on all lengths 11kw, 15kw, 18.5kw & 22kw.



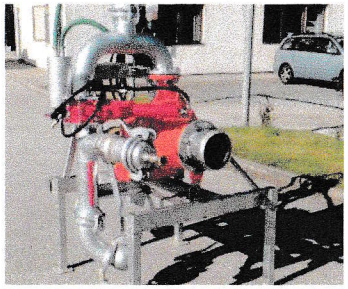


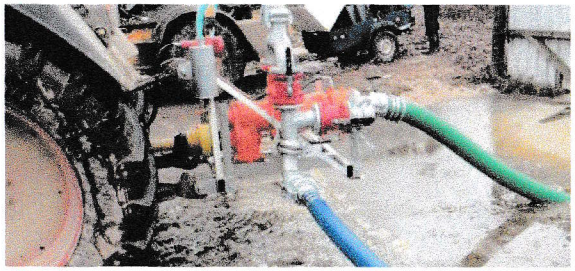
Centrifugal Chopper Pumps

Storth offer our homegrown NovaST Centrifugal Chopper Pump as well as the SX range from Bauer and K80 range from Cri-Man. It is our intention to supply the most suitable pump for your application; careful consideration is required depending on material viscosity, horsepower availability, pressure and flow.

The Chopper Pump is operated by a drive unit (e.g. electric motor, hydraulic motor or PTO), which turns the impeller and the cutting system. An open impeller design is used to successfully pass the macerated solids or thick slurry.

Storth's experience and expertise with Centrifugal Chopper Pumps in slurry management and slurry distribution systems enables us to specify the pump most appropriate to your application.





Technical Details

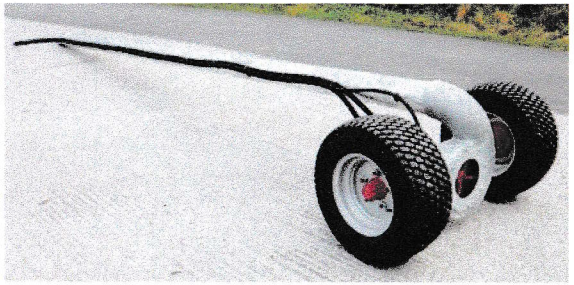
- 3-point linkage galvanised frame
- PTO with sheer bolt
- Hydraulic suction primer
- Galvanised pipe work subject to choice
- Pump performance subject to pump choice

Hydraulic Pumps

The Hydraulic Pump range starts at 4" (100mm) up to 6" (150mm). These can be used in many applications from pumping water to pumping slurry. The wheel kit version is used to roll down lagoon banks to enable faster filling of slurry tankers or helping umbilical pumps to keep fully primed giving a constant pumping supply to the field. Hydraulic Pumps are also a flexible option for transferring liquids and slurry from pit to pit if the accesses of tractors is impossible as we can run hydraulic hoses to the point of where the tractor can be located.

Technical Details

- Oil flow 40L to 65L (4" pump)
- Oil flow 80L to 200L (6" pump)
- Wheeled version 6m long galvanised pipe
- 3/4" hydraulic hoses 7m (6" pump)
- 1/2" hydraulic hoses 5m (4" pump)
- Over pressure pipe return
- Pumping capacity up to 800gallons (3,636L) per minute (depending on consistency and oil flow)





Notes: